

*Soldiers On Point for the Nation*



***Army  
Transformation***

*Persuasive in Peace, Invincible in War*

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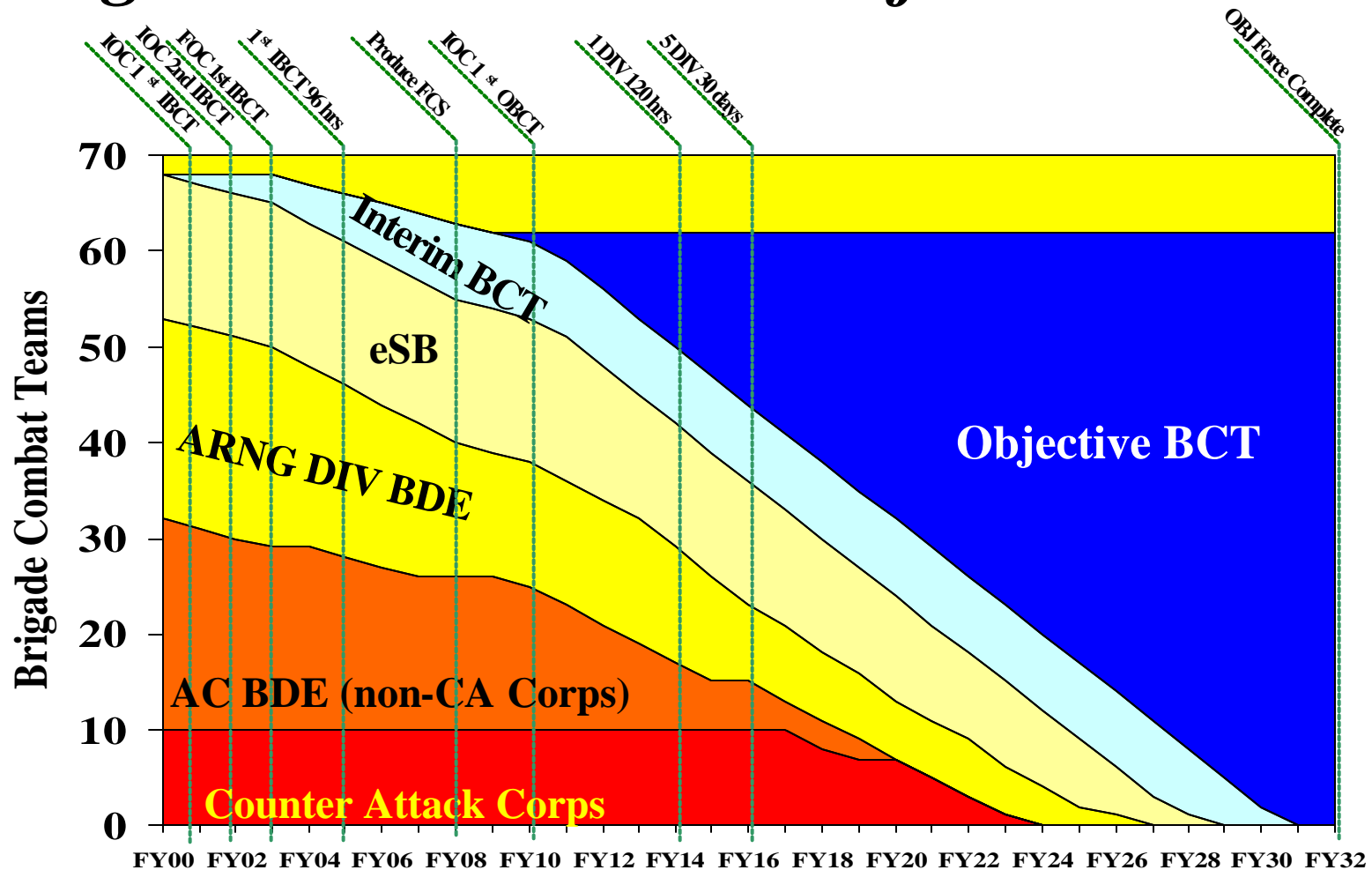
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*Recapitalization of the Legacy Force*

*BG Ross Thompson*



# Brigade Conversion to Objective Force



**Transforms The Army while maintaining essential Legacy Warfighting readiness to execute the National Military Strategy.**



# ***Definitions***

## ***Modernization***

- The development and/or procurement of new systems with *improved warfighting capabilities*

## ***Recapitalization***

- The rebuild and selected upgrade of currently fielded systems *to ensure operational readiness and a zero time/zero mile system*
  - Rebuild - Restores system to a like-new condition in appearance, performance, and life expectancy; inserts new technology to improve reliability and maintainability
  - Selected Upgrade - Rebuild of system and adds warfighting capability improvements to address capability shortcomings.

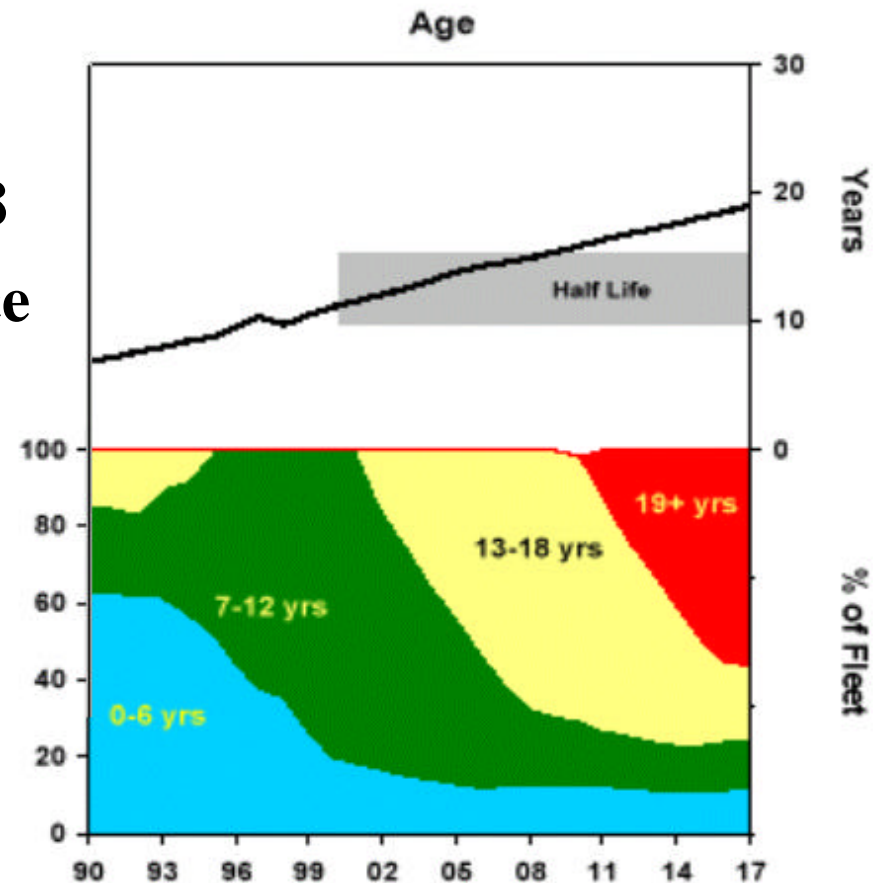
## ***Maintain***

- Repair or replacement of *end items, parts, assemblies, and subassemblies that wear or break*



# *OSD Half-Life Analysis – Tanks & IFVs*

- At Half-Life today
- Outside Half-Life band in FY08
- 60% of fleet at or beyond service life by 2017

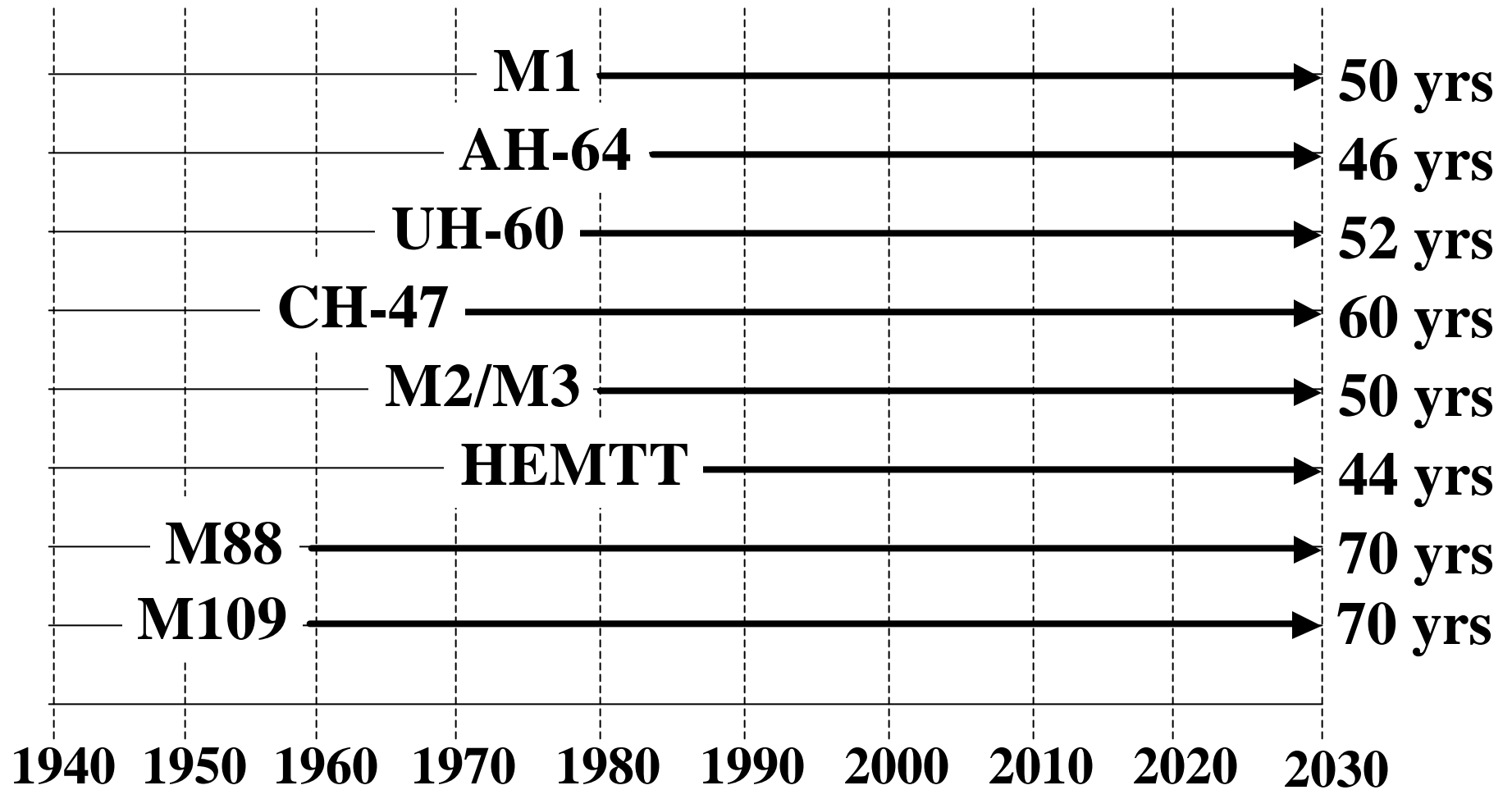


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*Defense Program Projection*

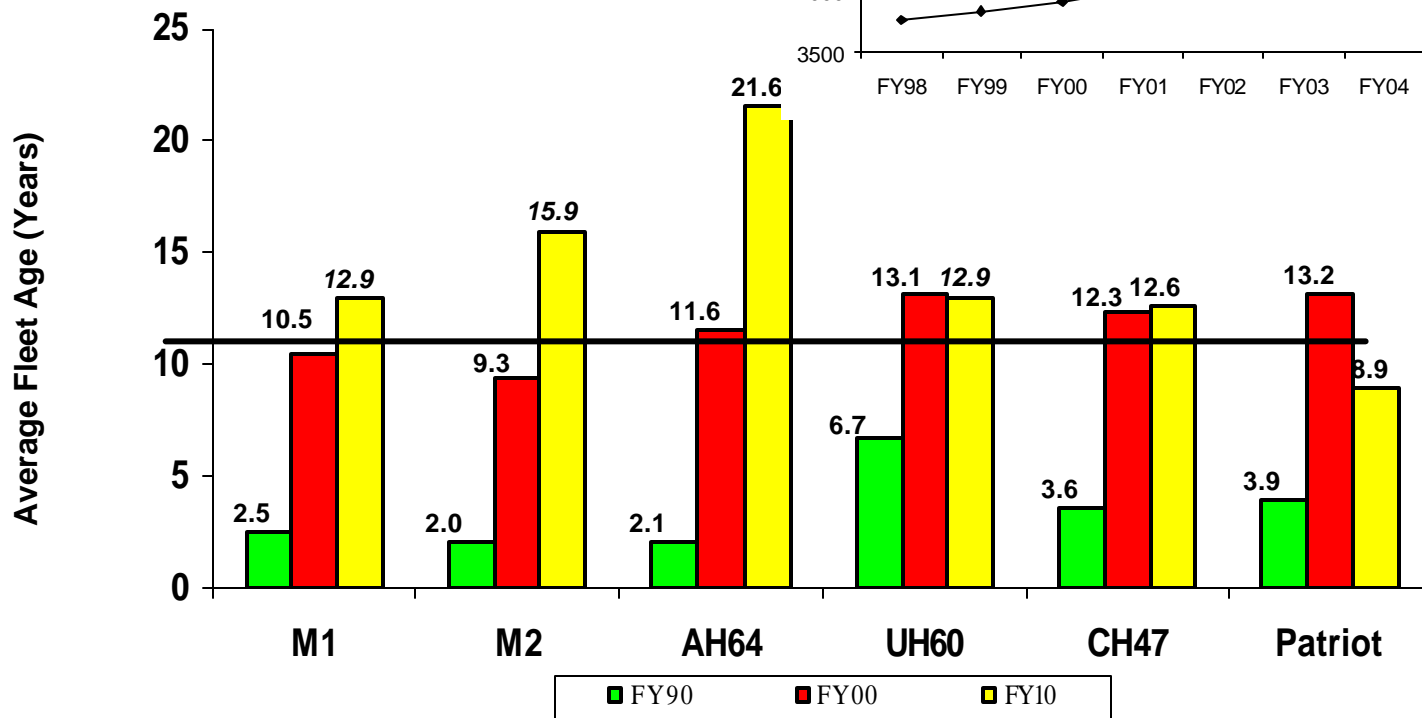
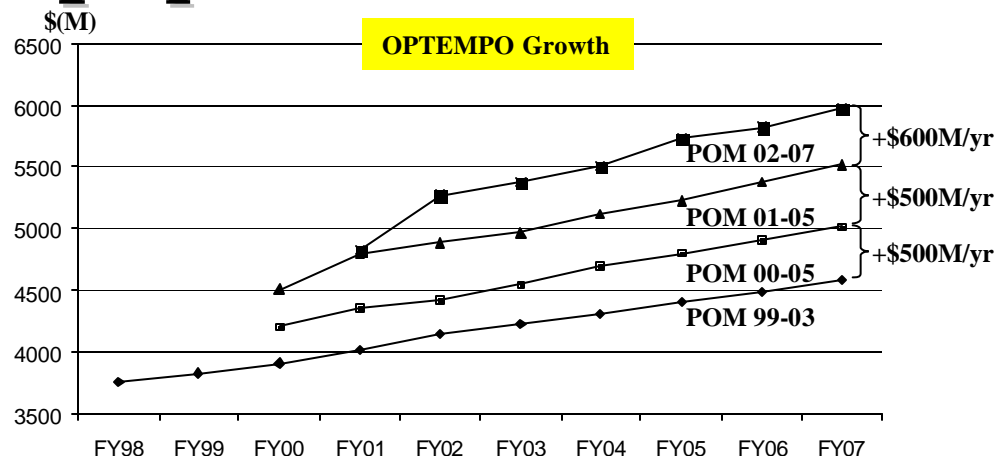


# *Army System Life Cycles*



# Aging Equipment

Cost per Hour/Mile			
System	FY96	FY99	Change
M1A1 Abrams	\$145	\$178	+22%
AH-64 Apache	\$4,763	\$6,164	+29%
UH-60 Blackhawk	\$1,374	\$1,334	-3%
CH-47D Chinook	\$1,944	\$2,485	+27%
M2/M3 Bradley	\$48	\$54	+13%



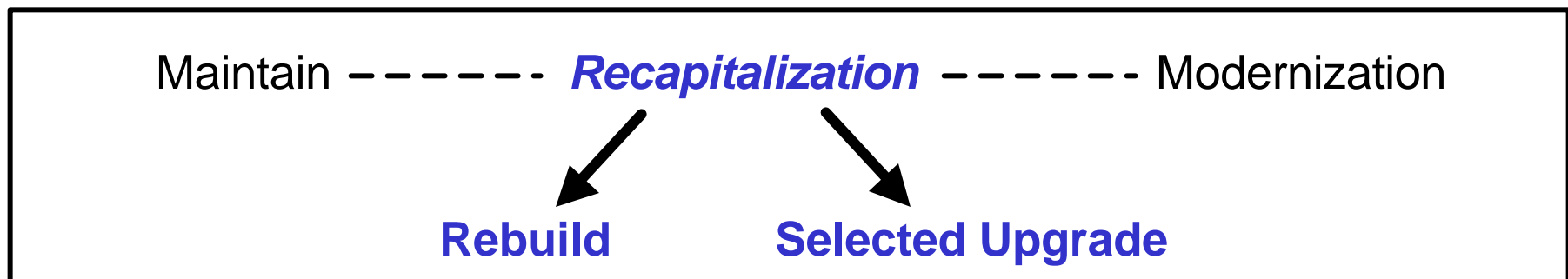
**Goal is to maintain average fleet age at or below half of the expected service life (10 years = 1/2 life for most Army equipment)**

**OPTEMPO costs have grown 30% over the last three years.**



# ***The Solution: Recapitalization***

- Definition: The rebuild and selected upgrade of currently fielded systems to ensure operational readiness and a zero time/zero mile system.
- Objectives:
  - Improved System Reliability, Safety, Maintainability, and Efficiency
  - Extended Service Life
  - Reduced Operating and Support (O&S) Cost
  - Enhanced Capability
- Technical/Engineering Data ↔ Components ↔ Systems
- OSD Half-Life Metric is the measure of success



# Recapitalization Programs

## Two Paths:

### Rebuild

### Selected Upgrade

**M1A1 AIM XXI\***

UH-60A

CH-47D

M9 ACE

M88A1

BRADLEY A2

PATRIOT

HEMTT

SEE

FIREFINDER

ELEC SHOPS

FAASV

SUSV

Zero Time/Zero Mile  
Maintenance Standard

Technology Insertion

Same Model-  
New Life

Zero Time/Zero Mile  
Maintenance Standard

Technology Insertion

Upgrade Warfighting  
Capability

New Model-  
New Life

**M1A2 SEP\***

UH-60L+

**CH-47F**

AVLB

HERCULES \*

BRADLEY A3\*

MLRS A1 \*

**HEMTT ESP**

D7 DOZER \*

**M113 A3 \***

**M915A4 \***

SCRAPER

HMMWV

**AH-64D**

Recap Programs prior to  
POM 02-07

31 Systems considered

-21 selected and prioritized

-10 not selected because:

- Met half-life metric
- Not cost-effective to recap; maintain only
- Retire before 2020

\* Currently in  
production

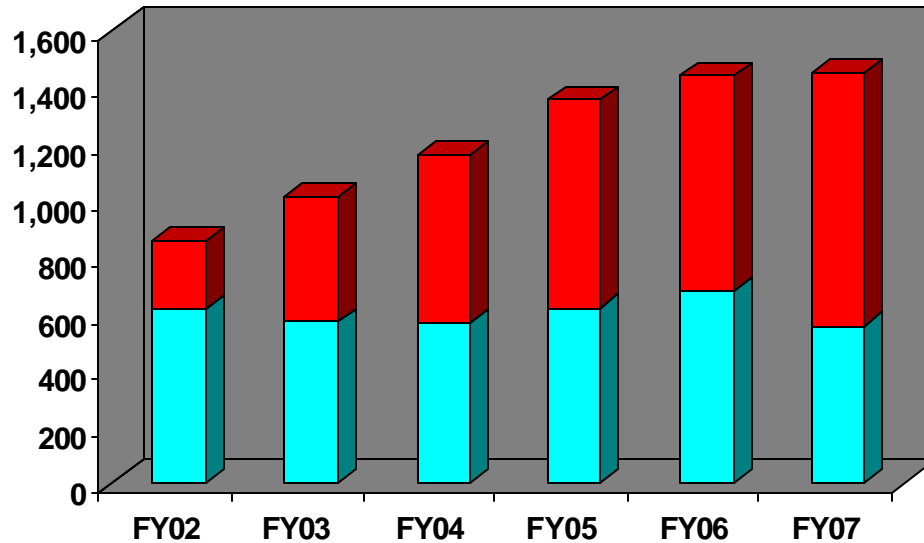




# Integrated Recapitalization

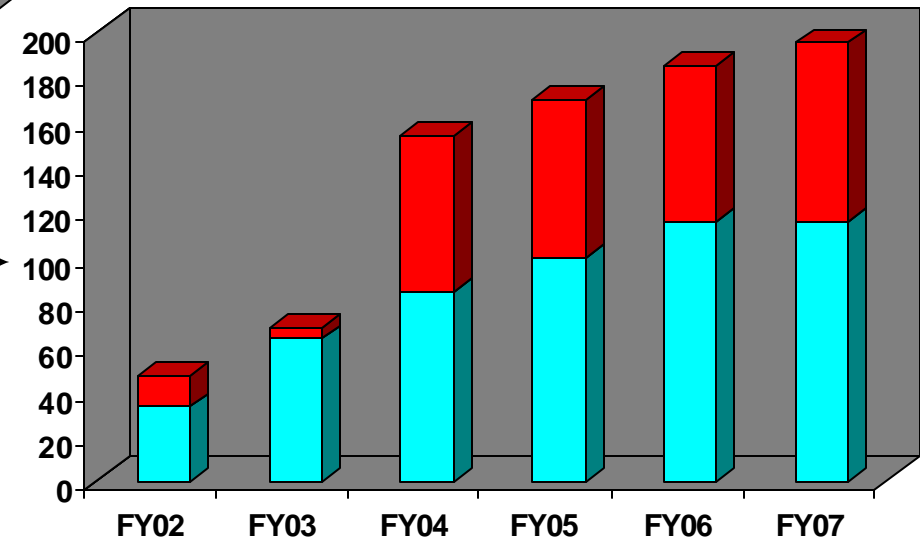
## New Standard, Increased Requirements

### Combat Systems



{ M1 Tanks      *Patriot\**  
 M2 Bradley    MLRS  
 M113            FAASV

### Aviation Systems



{ *Apache\**  
*UH-60\**  
*Chinook\**

**Funded Quantity**

**Unfunded Quantity**

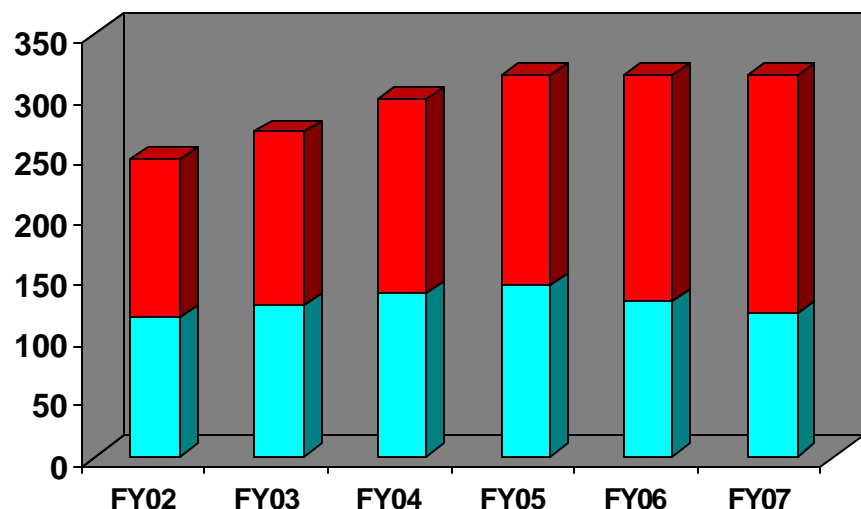
\* Objective Force Potential



# Integrated Recapitalization

## New Standard, Increased Requirements

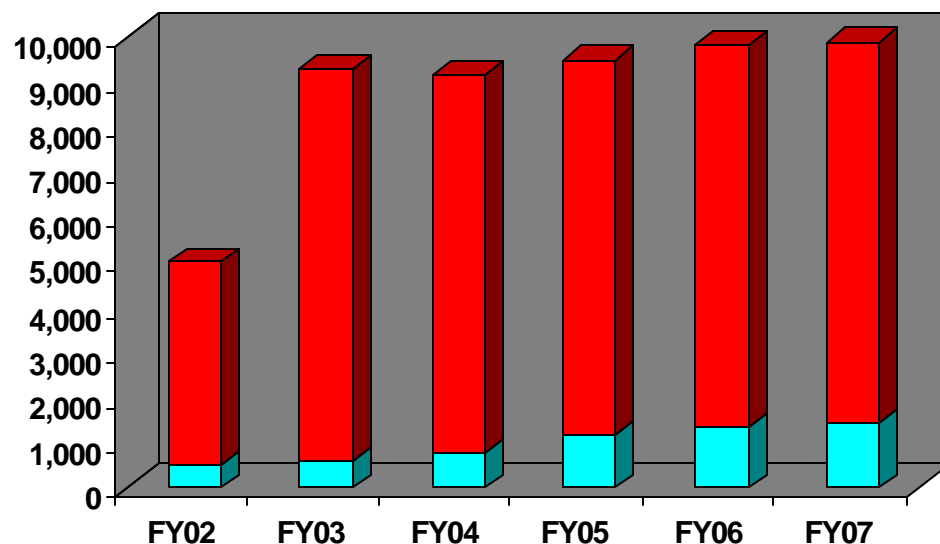
### Combat Support Systems



{ AVLB  
 M9 ACE  
 Firefinder

SEE  
*Dozer\**  
*Scraper\**

### Combat Service Support Systems



**Funded Quantity**

**Unfunded Quantity**

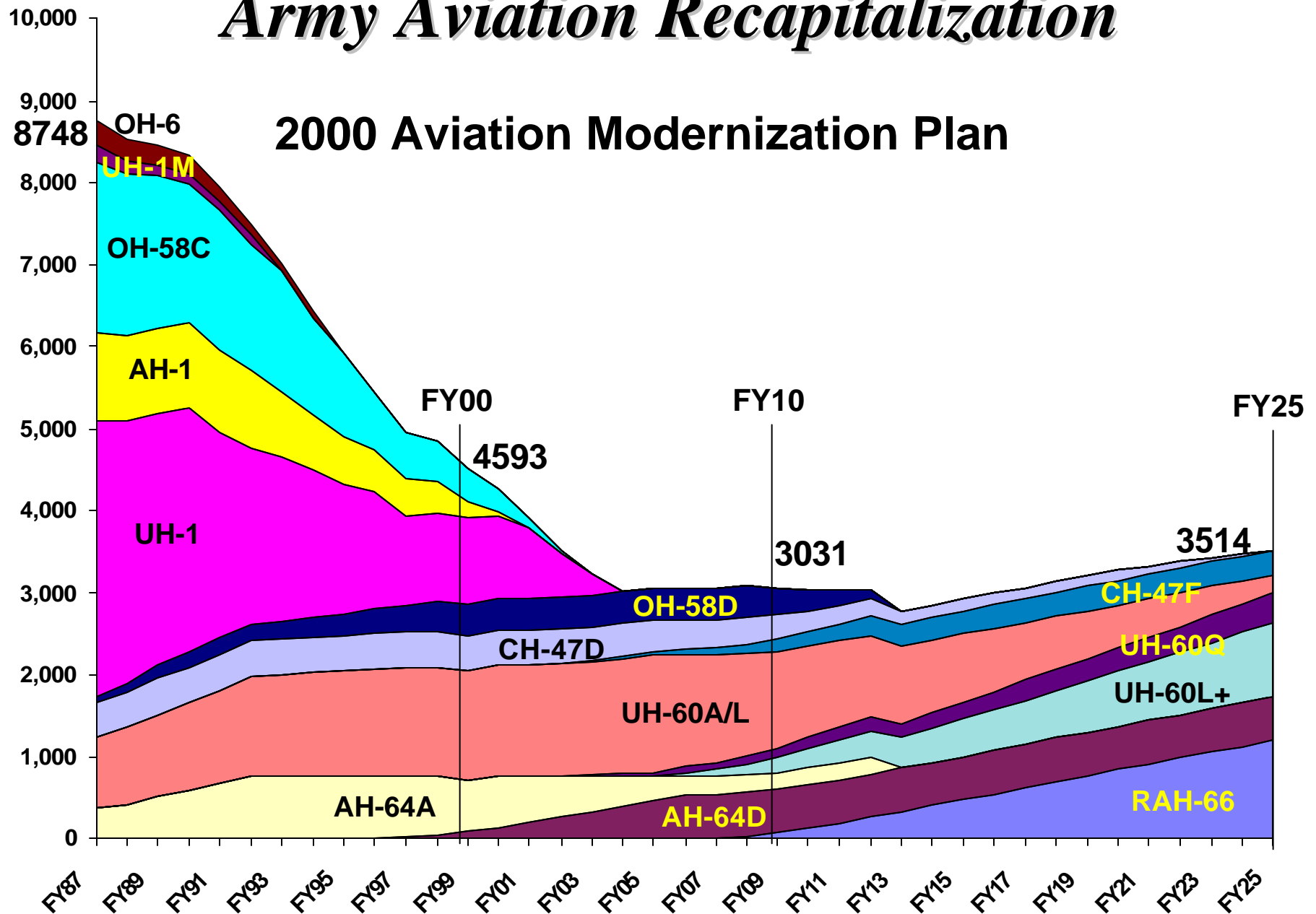
HMMWV\* M88  
 Elec Shop\* HEMTT\*  
 SUSV M915\*

\* Objective Force Potential



# Army Aviation Recapitalization

## 2000 Aviation Modernization Plan



# *Teaming to Support Recapitalization*

<b>SYSTEM</b>	<b>OEM*</b>	<b>DEPOT</b>
Abrams	GDLS	Anniston
Apache	Boeing	Corpus Christi
Blackhawk	Sikorsky	Corpus Christi
Chinook	Boeing	Corpus Christi
M88	UDLP	Anniston
AVLB	GDLS	Anniston
M9 ACE	UDLP	Anniston
Bradley	UDLP	Red River
MLRS	Lockheed-UDLP	Red River
Patriot	Raytheon	Letterkenny
M113A3	UDLP	Anniston
HEMTT	Oshkosh	Red River
SEE	Daimler-Benz	Red River
M915	Freightliner	N/A
Firefinder	Raytheon Systems	Tobyhanna
Electronic Shop	N/A	Tobyhanna
FAASV	UDLP	Anniston
Dozer	Caterpillar	N/A
SUSV	Haaglung	Red River
Scraper	Caterpillar	N/A
HMMWV	AM General	Red River

**\* Teaming not restricted to OEM; Army seeks best value**



# ***Conclusions***

- **Recapitalization is a critical element of the Army Transformation**
- **Recapitalization integrates rebuild and selected upgrade programs**
- **21 Systems selected met age, readiness, and O&S cost criteria**
- **Fleet management will maintain average age at or below OSD Half-Life metric**
- **SSTS/STS—Components—Systems must be synchronized**
- **Army will do it right -- even if it means fewer systems/components are recapitalized**

**Recapitalization of the Current Force ensures Warfighting Readiness throughout the period of the Transformation.**

